CLAIMS

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- 1. Rapid coupling device, in particular for use in compressed air lines, wherein the coupling comprises a plug-in and a receiving coupling socket, characterised in that the coupling socket body is made from one single piece.
- 2. Rapid coupling device according to claim 1, wherein the coupling socket is adapted to receive a coupling plug-in and the socket comprises
- a coupling socket body;
- 10 a valve located inside the coupling socket body;
 - a valve spring urging the valve into a closed position when not coupled to a coupling plug-in;
 - a gasket/seal between the valve and a valve seat arranged in the coupling socket body;
- locking means arranged in the socket for locking a coupling plug-in into secure coupling with the socket;
 - a locking release means slidingly arranged on the outside of the socket body and influenced by a spring into a locking position.
- 3. Coupling according to claim 2, c h a r a c t e r i s e d in that the valves travel in an interior cylindrical sliding surface provided in an interior wall of the socket body is less than 10 mm, preferably less than 5 mm.
 - 4. Coupling according to claims 2 or 3, c h a r a c t e r i s e d in that the valve is retained in the socket body by an O-ring.
 - 5. Coupling according to any of the preceding claims, characterised in that the valve is made from a resilient material and that the diameter of at least a part of the valve is larger than an interior diameter of the socket body.
 - 6. Coupling socket for use in compressed air lines, characterised in that the socket comprises locking means for retaining a plug-in device, valve means, connec-

tion means to a means for conveying compressed air, wherein the socket body is a single piece.

- 7. Method for assembling a rapid coupling socket device, wherein all parts are mounted through the coupling opening in the socket body.
 - 8. Method according to claim 7, characterised in that the assembly is as follows:
- a) the valve spring is inserted;
 - b) the valve is inserted and fitted inside an inner cylindrical sliding surface provided in an interior wall of the socket body and fitted partly inside the valve spring;
 - c) a first O-ring is arranged in a inner gasket groove;
 - d) a second O-ring is arranged in an outer gasket groove;
- e) a ventilating ring is arranged about the outside of the socket body;
 - f) a locking spring is arranged about an outside surface of the socket body and in contact with the ventilating ring;
 - g) a ball ring for retaining locking balls is arranged in contact with the locking spring together with at least two locking balls and, optionally, two locking pins;
- 20 h) a ball lock ring and
 - i) an outer locking ring encapsulating all items arranged on the outside of the socket body.